



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Hiroaki SHIMOKAWA                          Group art Unit: not yet assigned

Serial No : 10/597,357                          (National Stage of PCT/JP2005/001102)

I.A. Filed : January 27, 2005                          Examiner: not yet assigned

For : THERAPEUTIC AGENT FOR VASOSPASM ACCOMPANYING BYPASS OPERATION

## INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents  
U.S. Patent and Trademark Office  
Customer Service Window, Mail Stop \_\_\_\_\_  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and §§1.97-1.98, Applicants hereby direct the Examiner's attention to the following documents cited in the International Search Report of International Application No. PCT/JP2005/001102, filed January 27, 2005, of which the above-referenced application is the U.S. National Stage Application.

- 1) JP 61-227581 A, October 9, 1986, accompanied by an English language Abstract; Applicants note that this document is also discussed in the Specification, beginning at page 2, line 8;
- 2) JP 61-152658 A, July 11, 1986, accompanied by an English language Abstract; Applicants note that this document is also discussed in the Specification, beginning at page 2, line 8;

- 3) U.S. Patent No. 4,678,783 (Hidaka et al.), July 7, 1987; Applicants note that this document is a family member of documents (1) and (2); and
- 4) U.S. Patent Application No. 2003/162824 A1, (Krul), April 28, 2003.

Applicants further direct the Examiner's attention to the following documents cited in the specification of the present application:

- (5) JP-02-256617 A, October 17, 1990; accompanied by an English language Abstract; Applicants note that this document is discussed in the Specification, beginning at page 2, line 8;
- (6) JP-4-264030 A, September 18, 1992; accompanied by an English language abstract; Applicants note that this document is discussed in the Specification, beginning at page 2, line 8;
- (7) JP-6-056668 A; March 1, 1994; accompanied by an English language abstract; Applicants note that this document is discussed in the Specification, beginning at page 2, line 8;
- (8) U.S. Patent No. 5,747,507 (Ikegaki et al.), May 5, 1998, Applicants note that this document is a family member of document (7);
- (9) JP-6-080569, March 22, 1994; accompanied by an English language abstract; Applicants note that this document is discussed in the Specification, beginning at page 2, line 8;
- (10) WO 94/05290, March 17, 1994; accompanied by an English language abstract; Applicants note that this document is a family member of document (9);

- (11) WO 98/06433, A1, February 19, 1998, accompanied by an English language abstract; Applicants note that this document is discussed in the Specification, beginning at page 3, line 10;
- (12) EP 0956865 A1, November 17, 1999, Applicants note that this document is a family member of document (11);
- (13) WO 00/03746, A2, January 27, 2000, Applicants note that this document is discussed in the Specification, beginning at page 3, line 11;
- (14) T. Asano et al.; Br. J. Pharmacol., 1989, Vol. 98, pp. 1091-1100; Applicants note that this document is discussed in the Specification, beginning at page 2, line 9;
- (15) M. Shirotani et al.; J. Pharmacol. Exp. Ther., 1991, Vol. 259, No. 2; pp. 738-744; Applicants note that this document is discussed in the Specification, beginning at page 2, line 9;
- (16) N. Katsumata et al.; Circulation, 1997, Vol. 96, pp. 4357-4363; Applicants note that this document is discussed in the Specification, beginning at page 2, line 9; and
- (17) H. Shimokawa et al.; Cardiovascular Research, 1999, Vol. 43, pp. 1029-1039; Applicants note that this document is discussed in the Specification beginning at page 2, line 9.

Applicants also direct the Examiner's attention to the following additional documents:

- (18) JP-6-340659 A, December 13, 1994, accompanied by an English language abstract;
- (19) M. Shibuya et al.; J. Neurosurg. 1992, Vol. 76, pp.571-577;
- (20) E. Tachibana et al.; Acta Neurochirurgica, 1999, Vol. 141, pp. 13-19;
- (21) Masumoto et al.; Circulation, 2002, Vol. 105, pp.1545-1547;
- (22) Otsuka et al.; Circulation Journal, 2004, Vol. 67, Suppl. I, p. 614, PJ-517;
- (23) E.B. Okon et al.; Ann. Thorac. Surg., 2004, Vol. 77, pp.108-115;
- (24) T.J.P. Batchelor et al.; British Journal of Pharmacology, 2001, Vol. 132, pp. 302-308;
- (25) JP-60-81168 A, May 9, 1985; accompanied by an English language abstract;
- (26) U.S. Patent No. 5,942,505 (Kawakubo et al.), August 24, 1999;
- (27) JP2002-128676 A, May 9, 2002; and
- (28) U.S. Patent Application No. 2004/0242565 (Toshima et al.), December 2, 2004.

Copies of the above-noted documents, except for the U.S. Patents and U.S. Patent Applications, are enclosed together with a duly completed Form PTO-1449. The Examiner is accordingly requested to consider each of these documents, and to make them of record in this application by initialing in the appropriate spaces on the Form PTO-1449. Applicants respectfully request that the Examiner include a copy of the initialed Form PTO-1449 with the next communication from the U.S. Patent and Trademark Office.

This Information Disclosure Statement is being filed prior to mailing of a first Office Action on the merits. Accordingly, no fees are required. However, if any fee is necessary for consideration of this disclosure statement, this is a request to charge any necessary fee to Deposit Account No. 19-0089.

Respectfully submitted,  
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FORM PTO-1449			U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. P30188		Application No. 10/597,357	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)</b>					Applicant Hiroaki SHIMOKAWA			
					Filing Date January 27, 2005		Group Unknown	
<b>U.S. PATENT DOCUMENTS</b>								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		4 6 7 8 7 8 3	07/07/87	HIDAKA et al.				
	2003	/ 1 6 2 8 2 4	04/28/03	KRUL				
		5 7 4 7 5 0 7	05/05/98	IKEGAKI et al.				
<b>FOREIGN PATENT DOCUMENTS</b>								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
	61	- 2 2 7 5 8 1	10/09/86	JAPAN				
	61	- 1 5 3 6 5 8	07/11/86	JAPAN				
	02	- 2 5 6 6 1 7	10/17/90	JAPAN				
	4	- 2 6 4 0 3 0	09/18/92	JAPAN				
	6	- 0 5 6 6 6 8	03/01/94	JAPAN				
	6	- 0 8 0 5 6 9	03/22/94	JAPAN				
	94	/ 0 5 2 9 0	03/17/94	W.I.P.O				
	98	/ 0 6 4 3 3	02/19/98	W.I.P.O				
		0 9 5 6 8 6 5	11/17/99	E.P.O				
	00	/ 0 3 7 4 6	01/27/00	W.I.P.O				
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
	1	English language Abstract of JP61-227581.						
	2	English language Abstract of JP 61-153658.						
	3	English language Abstract of JP 02-256617.						
	4	English language Abstract of JP 4-264030.						
	5	English language Abstract of JP 6-056668.						
	6	English language Abstract of JP 6-080569.						
	7	English language Abstract of WO 98/06433.						
	8	T. Asano et al.; Br. J. Pharmacol., 1989, Vol. 98, pp. 1091-1100.						
	9	M. Shirotani et al.; J. Pharmacol. Exp. Ther., 1991, Vol. 259, No. 2; pp. 738-744.						
	10	N. Katsumata et al.; Circulation, 1997, Vol. 96, pp. 4357-4363.						
	11	H. Shimokawa et al.; Cardiovascular Research, 1999, Vol. 43, pp. 1029-1039.						
	12	M. Shibuya et al.; J. Neurosurg. 1992, Vol. 76, pp.571-577.						
	13	E. Tachibana et al.; Acta Neurochirurgica, 1999, Vol. 141, pp. 13-19.						
	14	Masumoto et al.; Circulation, 2002, Vol. 105, pp.1545-1547.						
	15	Otsuka et al.; Circulation Journal, 2004, Vol. 67, Suppl. I, p. 614, PJ-517.						
	16	E.B. Okon et al.; Ann. Thorac. Surg., 2004, Vol. 77, pp.108-115.						
	17	T.J.P. Batchelor et al.; British Journal of Pharmacology, 2001, Vol. 132, pp. 302-308.						
EXAMINER				DATE CONSIDERED				
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

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			Filing Date January 27, 2005		Group Unknown			
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
O I P E		5 9 4 2 5 0 5	08/24/99	KAWAKUBO et al.				
NOV 9 0 2006	12004	0 2 4 2 5 6 5	12/02/04	TOSHIMA et al.				
FOREIGN PATENT DOCUMENTS								
DOCUMENT NUMBER		DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO		
6	- 3 4 0 6 5 9	12/13/94	JAPAN					
60	- 8 1 1 6 8	09/09/85	JAPAN					
2002	- 1 2 8 6 7 6	05/09/02	JAPAN					
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
	18	English language Abstract of JP 6-340659.						
	19	English language Abstract of JP 60-81168.						
EXAMINER			DATE CONSIDERED					